Hydrology ○ K14/D20 ○ State Theater Remodel

K14/D20

State Theater

Remodel

1 Plan

SCANLON & ASSOCIATES INC

CONSULTING ENGINEERS

City Hydrologist
2nd & Central
Albuquerque, NM 87103

RECEIVED
NOV 16 1984
DESIGN HYDROLOGY SECTION

Re: State Theatre Drainage Plan

LETTER OF TRANSMITTAL

DATE: Nov 14, 1984 JOB NUMBER: 84136/K-14/D20

TO: Bill Gaasby, Floodway Administrator

WE ARE ENCLOSING:	QUANTITY: Sheets	Cpts	FOR:	
___ Prints			Your Use	___
___ Plans			Your Approval	___
___ Specifications			Your Records Files	___
___ Shop Drawings			Review & Comment	___
___ Change Order No. ___			Revisions & Corrections	___
___ Studies Reports			As Per Your Request	___
___ Letter			Bids Due:	___
___				___

NOTE: In conjunction with our conversation on Nov 13, 84 regarding the possibility of using a 3" Pipe in lieu of 4" Pipe for Drainage Pond Empty at the State Theatre Parking area - Please find a copy of calculations showing the revised pumping arrangement will work.

Thanks much.

Copy to: File Signed: Dennis L. Bime

ALBUQUERQUE, NEW MEXICO 87110-7897 — 8008 PENNSYLVANIA CIRCLE NE — TELEPHONE: (505) 265-6941
ARTESIA, NEW MEXICO 88210-2041 — 510 WEST TEXAS AVENUE — TELEPHONE: (505) 748-1010
SANTA FE, NEW MEXICO 87501-3941 — 1570 PACHECO STREET, SUITE A-7 — TELEPHONE: (505) 983-3323
BROKEN ARROW, OKLAHOMA 74012-1419 — 1700 W. ALBANY, SUITE 100-D — TELEPHONE: (918) 258-2572

SCANLON & ASSOCIATES
CONSULTING ENGINEERS
8008 Pennsylvania Circle NE
Albuquerque, New Mexico 87110
(505) 265-6941

Project STATE Theatre Drainage
Location - Pump Discharge
Job No. 84126.0 Date Nov 14, 84
By DWB Sheet 1 of ____

Pumping Head Required for State Theatre @ 20 gpm rate

Static Head
Relative Elev.
Conn 100.5
Basin Bottom 95.4
5.1'

Dynamic HL
40 LF 3" PVC & Ductile
Use C = 100

4 Ells Equiv 30 Diam
4 x 30/4 = 30'
1 Chk Valve 30'
} Equiv. 100 LF - 3" line

h_L @ C=100, Q=20 gpm } = 2.8 ft/1000 ft

2.8' x 100/1000 = 0.28'

TDH ≈ 5.4' << 10' req'd

We have provided a Pump capable of 20 gpm @ 10.0 ft

which will empty the Drainage Basin within 6.7 hours

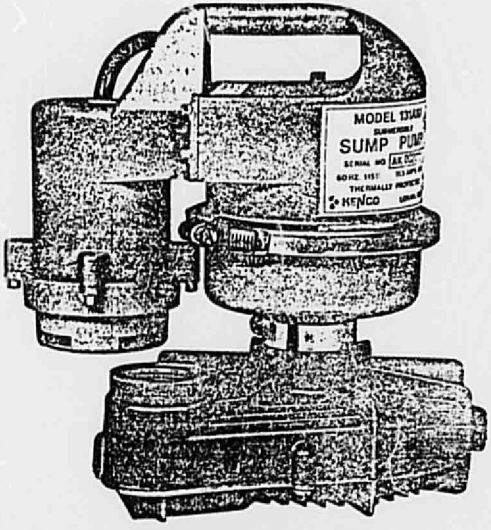
RECEIVED
NOV 16 1984
DESIGN HYDROLOGY SECTION

KENCO

Sump Pump / Model 131A1U

The Model 131A1U is a low-cost basement sump pump specifically designed for long, dependable service — with the muscle to handle high capacity needs. Engineered with features such as fully automatic operation, thermal overload protection and oil filled motor chamber, the Model 131A1U is built to offer outstanding performance value.

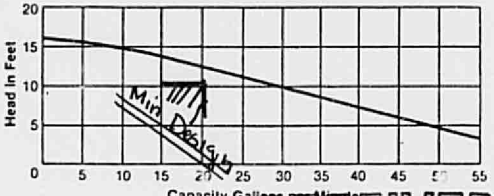
Quality materials and workmanship have been combined with knowledgeable Kenco engineering to produce the Model 131A1U — a truly outstanding submersible sump pump, at an affordable price.



FEATURES

- Equipped with a powerful 1/3 H.P., 115-volt heavy duty motor.
- High output capacity permits large volume fluid handling.
- Thermally protected motor guards against overload conditions.
- Six-vane impeller and large 1¼" threaded discharge port allows high volume displacement.
- Preset turn on and turn off liquid level control enables fully automatic operation.
- Corrosion resistant construction.
- A hermetically sealed, oil filled motor compartment provides permanent self-lubrication and aids heat transfer.
- Will handle fluid temperatures to 120° F.
- Readily installed in new or old sump pits.
- Completely submersible, operates quietly and efficiently — ideal for recreation room installations.
- Lightweight yet rugged and impact resistant shipping weight of the pump is only 17 pounds.
- UL-Listed 8-foot power cord, fitted with a molded grounding type cord cap.
- 12-month limited unit warranty.
- Height 10"—max. width 10⅜".

PERFORMANCE DATA



RECEIVED
NOV 16 1984
DESIGN HYDROLOGY SECTION

KENCO PUMPS, INC.
13th street / lorain, ohio 44052

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

September 17, 1984

Mr. Dennis Brand
Scanlon & Associates
8008 Pennsylvania Circle, N.E.
Albuquerque, New Mexico 87110

RE: REVISED GRADING AND DRAINAGE FOR STATE THEATER (K14-D20) RECEIVED AUGUST 21, 1984

Dear Mr. Brand:

The above referenced plan, dated September 13, 1984 is approved.

Please attach a copy of this approved plan along with the appropriately approved "Drainage Facilities Within City Right of Way" document to the construction set prior to hydrology sign-off.

If I can be of further assistance, please contact me at 766-7644.

Sincerely yours,

Billy J. Goolsby
Civil Engineer/Hydrology

cc: Greg Olson, Assistant City Engineer/Design

BJG/bm

KENCO

Sump Pump / Model 131A1U

The Model 131A1U is a low-cost basement sump pump specifically designed for long, dependable service — with the muscle to handle high capacity needs. Engineered with features such as fully automatic operation, thermal overload protection and oil filled motor chamber, the Model 131A1U is built to offer outstanding performance value.

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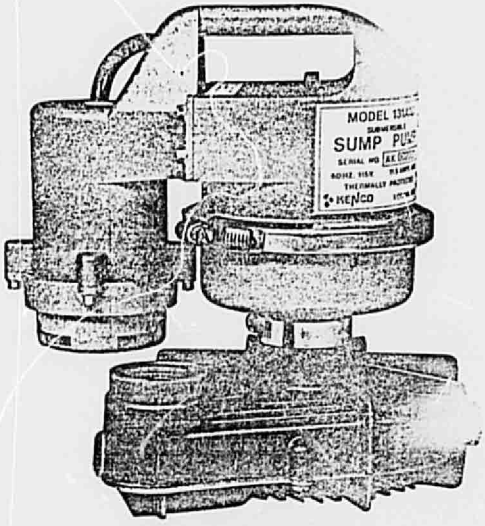

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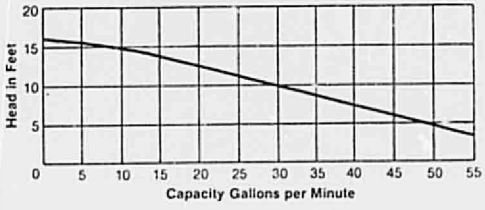
- Preset turn on and turn off liquid level control enables fully automatic operation.
- Corrosion resistant construction.
- A hermetically sealed, oil filled motor compartment provides permanent self-lubrication and aids heat transfer.
- Will handle fluid temperatures to 120° F.
- Readily installed in new or old sump pits.
- Completely submersible, operates quietly and efficiently — ideal for recreation room installations.
- Lightweight yet rugged and impact resistant shipping weight of the pump is only 17 pounds.
- UL-Listed 8-foot power cord, fitted with a molded grounding type cord cap.
- 12-month limited unit warranty.
- Height 10"—max. width 10⅜".

PERFORMANCE DATA



KENCO PUMPS, INC.
13th street / lorain, ohio 44052

SCANLON & ASSOCIATES INC.

CONSULTING ENGINEERS

August 21, 1984

84126
FC-15

RECEIVED
AUG 21 1984
HYDROLOGY SECTION

City Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

Attn: Mr. Billy Goolsby
City/County Flood Ordinance Administrator

Re: Grading & Drainage Plan
State Theatre Modifications

Dear Billy:

Enclosed please find two (2) copies of finalized Drainage Plan for the above Project (See July 17th correspondence for Preliminary Submittal). Enclosed also find two (2) copies of pump submittals to be used for sump pumps to drain the retention basin for this site.

We are also submitting permit requests to City Engineering for drainage facilities in the R/W (1 copy enclosed).

We trust this information is sufficient for your further review. Please let us know if you require any further information.

Respectfully,

SCANLON & ASSOCIATES, INC.

Dennis D. Brand, P.E.

DDB/jl

cc: Greg Olson, P.E.

PLEASE REPLY TO:

☐ ALBUQUERQUE, NEW MEXICO 87110-7887	8008 PENNSYLVANIA CIRCLE NE	TELEPHONE: (505) 265-6941
☐ ARTESIA, NEW MEXICO 88210-2041	510 WEST TEXAS AVENUE	TELEPHONE: (505) 748-1010
☐ SANTA FE, NEW MEXICO 87501-3981	1570 PACHECO STREET, SUITE A-7	TELEPHONE: (505) 983-3323
☐ BROKEN ARROW, OKLAHOMA 74012-1419	1700 W. ALBANY, SUITE 100-D	TELEPHONE: (918) 258-2572

DRAINAGE SUBMITTAL INFORMATION SHEET

PROJECT TITLE State Theatre (900) TYPE OF SUBMITTAL Conceptual Grading & Drainage Plan

ZONE ATLAS PAGE NO. K-14 CITY ADDRESS Central Ave. between 2nd & 3rd

LEGAL DESCRIPTION _____

ENGINEERING FIRM Scanlon & Associates CONTACT Dennis Brand

ADDRESS 8008 Penn. Cr. NE PHONE 265-6941

OWNER N/A CONTACT _____

ADDRESS _____ PHONE _____

ARCHITECT Dorman/Nelson/Breen CONTACT Doug Nelson

ADDRESS 1512 Paseo De Peralta Santa Fe, NM PHONE (1)-982-9196

SURVEYOR N/A CONTACT _____

ADDRESS _____ PHONE _____

CONTRACTOR Bradbury & Stamm CONTACT Richard Tavelli

ADDRESS P.O. 25027 Albuquerque PHONE 765-1200

PRE-DESIGN MEETING:

_____ YES
__X__ NO
_____ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

_____ SKETCH PLAT APPROVAL
_____ PRELIMINARY PLAT APPROVAL
__X__ SITE DEVELOPMENT PLAN APPROVAL
_____ FINAL PLAT APPROVAL
__X__ BUILDING PERMIT APPROVAL DRN 9/13/84
_____ CERTIFICATE OF OCCUPANCY APPROVAL
_____ ROUGH GRADING PERMIT APPROVAL
_____ GRADING/PAVING PERMIT APPROVAL
_____ OTHER Conceptual Grade & Drai (SPECIFY)

RECEIVED
AUG 21 1984
HYDROLOGY SECTION

DATE SUBMITTED: August 21, 1984

BY: DDB Dennis D. Brand P.E.

SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS

K14 D20

July 17, 1984

City Hydrology Dept
P.O. Box 1293
Albuquerque, NM 87103

Attn: Mr. Billy Goolsby
city/county Flood Ordinance Administrator

Re: Conceptual Grading & Drainage Plan
STATE Theatre Modifications
#84126

Dear Billy

We have provided a drainage pump for the Retention Basin. This pump can be a Submersible Non-clog Sewage Pump (1 HP, 20gpm @ 10ft TDH will work fine for this basin) of one of many makes (Flygt, Gorman-Rupp, etc) The pump will be installed in a catch basin located inside the basin with a seperate Pipe influent, and the discharge line will run through the city sidewalk as shown on the Grading Plain.

I hope this information is helpful.

Respectfully

Dennis D. Brand

Dennis D. Brand

DDB/kjh

okay for foundation
7/17/84

PLEASE REPLY TO:

☐ ALBUQUERQUE, NEW MEXICO 87110-7897	8008 PENNSYLVANIA CIRCLE NE	TELEPHONE: (505) 265-8941
☐ ARTESIA, NEW MEXICO 88210-2041	510 WEST TEXAS AVENUE	TELEPHONE: (505) 748-1010
☐ SANTA FE, NEW MEXICO 87501-3981	1570 PACHECO STREET, SUITE-A-7	TELEPHONE: (505) 983-3323
☐ BROKEN ARROW, OKLAHOMA 74012-1419	1700 W. ALBANY, SUITE 100-D	TELEPHONE: (918) 258-2572

DRAINAGE SUBMITTAL INFORMATION SHEET

PROJECT TITLE State Theatre — TYPE OF SUBMITTAL Conceptual Grading & Drainage Plan

ZONE ATLAS PAGE NO. K-14 D20 — CITY ADDRESS Central Ave. between 2nd & 3rd

LEGAL DESCRIPTION Lots 13, 14, 15, 16

ENGINEERING FIRM Scanlon & Associates — CONTACT Dennis Brand

ADDRESS 8008 Penn. Cr. NE — PHONE 265-6941

OWNER N/A — CONTACT

ADDRESS — PHONE

ARCHITECT Dorman/Nelson/Breen — CONTACT Doug Nelson

ADDRESS 1512 Paseo De Peralta Santa Fe, NM — PHONE (1)-982-9196

SURVEYOR N/A — CONTACT

ADDRESS — PHONE

CONTRACTOR Bradbury & Stamm — CONTACT Richard Tavelli

ADDRESS P.O. 25027 Albuquerque — PHONE 765-1200

PRE-DESIGN MEETING:

____ YES
_X_ NO
____ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

____ SKETCH PLAT APPROVAL
____ PRELIMINARY PLAT APPROVA
_X_ SITE DEVELOPMENT PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ ROUGH GRADING PERMIT APPROVAL
____ GRADING/PAVING PERMIT APPROVAL
____ OTHER Conceptual Grade & Dra (SPECIFY)

DATE SUBMITTED: July 17, 1984

BY: DDB Dennis D. Brand P.E.

SCANLON & ASSOCIATES
8008 Pennsylvania Circle NE
Albuquerque, New Mexico 87110
(505) 265-6941

Project STATE Theatre
Location 2nd & Central Ave / Albuquerque
Job No. 84126 Date July 17, 1984
By DDB Sheet 1 of 2

Drainage - State Street Theatre
Preliminary Calcs - Holding Pond Ejector Pump

Volume of water required { 6 hour - 100 year Storm Pattern
1072 cubic Feet

Concentration Time 6 hours
Drainage Time 24 hours } 30 hours

Drainage ~~rate~~ required

$$\frac{1072 \times 7.48 \text{ gal}}{30 \times 60 \text{ min}} = \frac{8018.5}{1800}$$

$$= 4.45 \text{ gpm required}$$

Selection

Prelim-Select Non-Clog Sewage Pump Type CS
(Typical Choices - Flygt

- 10 gpm @ 18' TDH
- 15 gpm @ 12' TDH
- 20 gpm @ 10' TDH *

This pump is to be installed in a Manhole with a Recessed Outlet of 4" Pipe Through City Curb in Street

SCANLON & ASSOCIATES

8008 Pennsylvania Circle NE
Albuquerque, New Mexico 87110
(505) 255-8041

Project STATE Theatre
Location 2nd & Central Ave / Albuquerque
Job No. 8412.6 Date July 17, 1984
By DDS Sheet 1 of 2

Drainage - State Street Theatre
Preliminary Calcs - Holding Pond Ejector Pump

Volume of water required { 6 hour - 100 year Storm Pattern
1072 cubic Feet

Concentration Time 6 hours
Drainage Time 24 hours } 30 hours

Drainage rate required

$$\frac{1072 \times 7.48 \text{ gal}}{30 \times 60 \text{ min}} = \frac{8018.5}{1800}$$

$$= 4.45 \text{ gpm}$$

Selection

Prelim-Select Non-Clog Sewage Pump Type CS
(Typical Choices - Flygt

- 10 gpm @ 18' TDH
- 15 gpm @ 12' TDH
- 20 gpm @ 15' TDH *

This pump is to be installed in a Manhole with a Permanent Outlet of 4" Pipe Through City Curb in Street

SCANLON & ASSOCIATES

9008 Pennsylvania Circle NE
Albuquerque, New Mexico 87110
(505) 265-6941

Project State Theater
Location 2nd & Central / N. 10th vault
Job No. 84136 Date July 17, 1984
By DDB Sheet 2 of 2

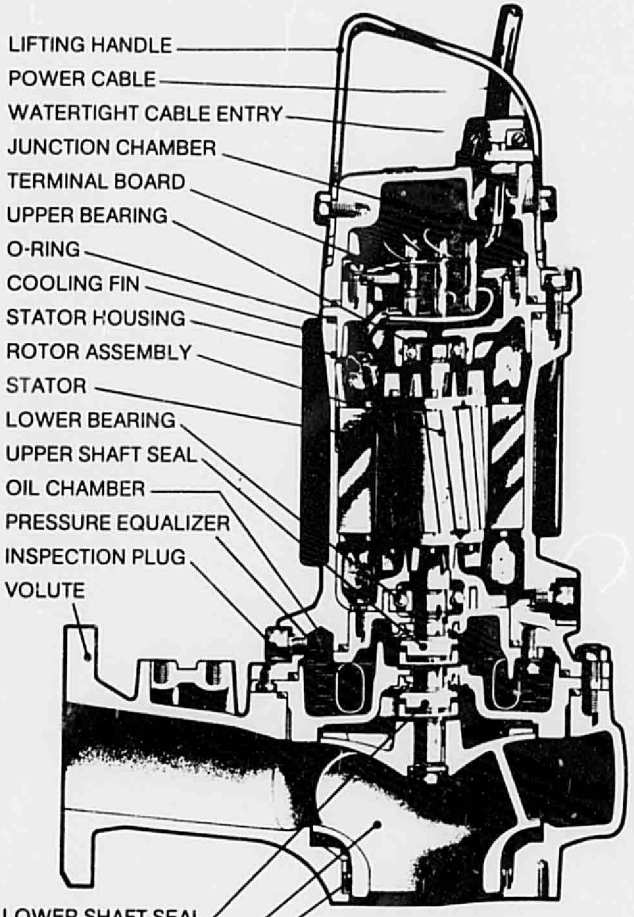
Choose 20 gpm @ 10' TDH

$$\frac{1072 \times 7.48 \text{ gal}}{20} = 400 \text{ minutes to Drain}$$

$400/60 = \underline{6.7 \text{ hours to Drain}}$

THE FLYGT ELECTRIC SUBMERSIBLE SEWAGE PUMP*

SECTION	PAGE
C	10
SUPERSEDES	ISSUED
	SEP74



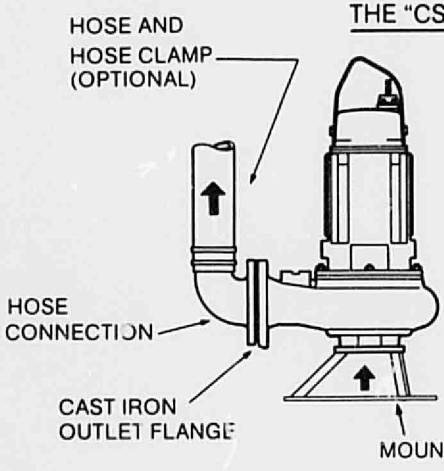
(*MODEL 4" C-3101 WITH EXTERNAL COOLING)

FLYGT CORPORATION
129 GLOVER AVE., NORWALK, CT 06856

THE "CS" AND "CT" ARRANGEMENTS

SECTION	PAGE
C	30
SUPERSEDES	ISSUED
	JAN75

THE "CS" ARRANGEMENT



THIS IS A PORTABLE WASTEWATER PUMP INTENDED TO WORK ENTIRELY OR PARTLY SUBMERGED

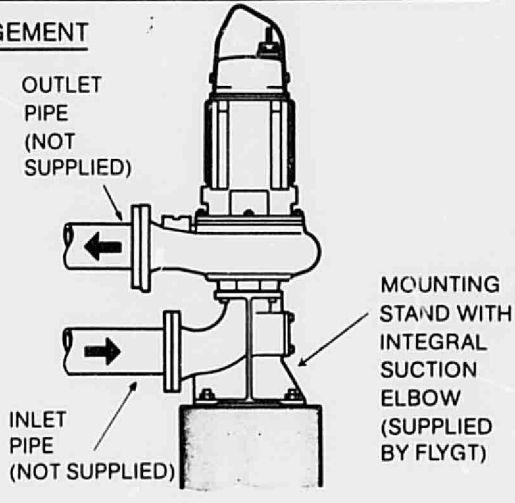
(CS-3101 SHOWN)

THE "CT" ARRANGEMENT

THIS IS A PERMANENTLY INSTALLED WASTEWATER PUMP FOR DRY SUMP INSTALLATION

PROVIDED WITH STANDARD CLASS 125 CAST IRON INLET AND OUTLET FLANGE DRILLING.

PUMP'S WATERTIGHT DESIGN PREVENTS DAMAGE IN THE EVENT OF FLOODING.



(CT-3101 SHOWN)

FLYGT CORPORATION
129 GLOVER AVE., NORWALK, CT. 06856

SCANLON & ASSOCIATES INC

CONSULTING ENGINEERS

City of Albuquerque
Dept. of Hydrology
Attn: M. Bill Goolsby, P.E.

LETTER OF TRANSMITTAL

DATE: July 13, 1984 JOB NUMBER: 84100

TO:

WE ARE ENCLOSING:	QUANTITY: Sheets	Sets	FOR:	
___ Prints			Your Use	___
___ Plans			Your Approval	___
___ Specifications			Your Records Files	___
___ Shop Drawings			Review & Comment	___
___ Change Order No. ___			Revisions & Corrections	___
___ Studies Reports			As Per Your Request	___
___ Letter			Bids Due:	___
X				___

RECEIVED
JUL 13 1984
HYDROLOGY SECTION

NOTE: Dear Bill

Enclosed please find (1) a Conceptual Plan for Grading and retaining the water from the Parking lot & the Proposed State Theatre Renovation and (2) Letter and Pictures from Broadview & Storm indicating the alternative (tie into Existing Street Inlet) to be very costly

Copy to: Signed: Dennis D. Scanlon

ALBUQUERQUE, NEW MEXICO 87110 — 8008 PENNSYLVANIA CIRCLE NE — TELEPHONE (505) 265 6941
ARTESIA, NEW MEXICO 88210 — 510 WEST TEXAS AVENUE — TELEPHONE (505) 748 1010
SANTA FE, NEW MEXICO 87501 — 1570 PACHECO STREET, SUITE A-7 — TELEPHONE (505) 983 3323
TULSA, OKLAHOMA 74114 — 2642 E. 21ST STREET, SUITE 120 — TELEPHONE (918) 742 7342

Bradbury & Stamm Construction Company, Inc.

July 12, 1984

Scanlon & Associates
8008 Pennsylvania Circle NE
Albuquerque, NM 87110

RECEIVED
JUL 13 1984
HYDROLOGY SECTION

Attn: Dennis Brand

RE: State Theater Remodel - Site Drainage

Gentlemen:

I have been asked by Doug Nelson, Architect for the referenced project, to do a preliminary cost estimate for routing a drain line from the parking lot on the east side of the State Building to a catch basin in Central Avenue at the southwest corner of the building.

There are several existing conditions which make this an extremely expensive project.

First, due to the fact that the elevation of the parking lot is lower than the catch basin inlet, it will be necessary to tap into the catch basin below the ground. This necessitates ripping out a large portion of sidewalk and digging a fairly deep hole, then backfilling and replacing the sidewalk. This also will require a second catch basin at the corner of the parking lot.

Second, since it is not possible to make a straight run from the parking lot to the catch basin at the street, a manhole or at least a cleanout will probably be necessary at the change in direction.

Third, it will be necessary to cut a trench through and patch back approximately 70 lineal feet of extremely intricate sidewalk detailing (see enclosed photograph) which involves several different concrete textures and brick patterns. In fact, it may be necessary to replace the entire sidewalk across the front of the building.

My estimate for doing all of this would be someplace between $7,000.00 and $11,000.00 depending on how much sidewalk has to be replaced, the nature of the cleanouts, and what unknown underground obstructions are uncovered. It would be much more cost effective to pond the water somewhere on site and thus eliminate all of the work items described above.

If you have any questions concerning this information, please call.

Very truly yours,

BRADBURY & STAMM CONSTRUCTION COMPANY, INC.

Richard Wm. Tavelli

Richard Wm. Tavelli, Project Manager

RWmT:asa

Encl. a/s

CITY OF ALBUQUERQUE Dick S.

DRAINAGE FACILITIES WITHIN CITY-OF-WAY

VICINITY MAP

Aug 22, 84

DENNIS D. GRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER

LEGAL DESCRIPTION

LOTS 17, 18, 19, & 20, BLOCK 9, ORIG. TOWN SITE - ALBUQUERQUE.

Permit # 16440

Bradbury & Stamm Drc.

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.

2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for Public Works Contract No. 84-2".

3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

5. Backfill compaction shall be according to N/A street use. OKay Tom A.

D-129

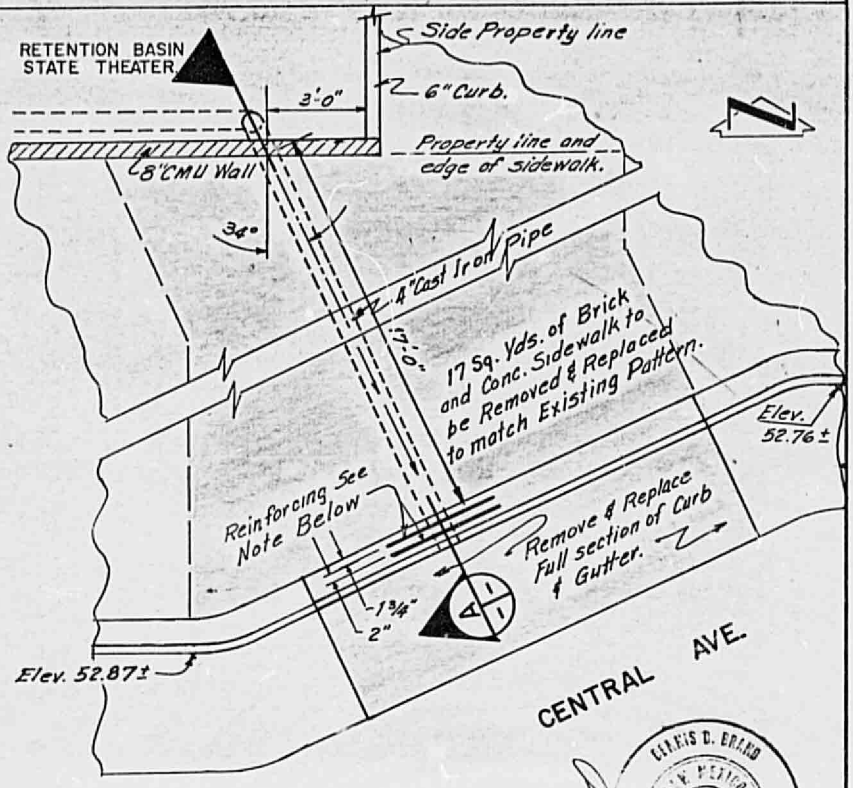
APPROVALS	NAME	DATE
ACE / DESIGN	H.C. Cha	8/31/84
INSPECTOR	Jack Bass	2-6-85
ACE / FIELD	W. J. McNamara	2-7-85

TITLE: 213 CENTRAL AVE, N.W.
STATE THEATER RENOVATION
RETENTION BASIN AND DRAIN

PERMIT NO 16440 | SHEET 1 OF 2 | MAP NO. K-14-Z

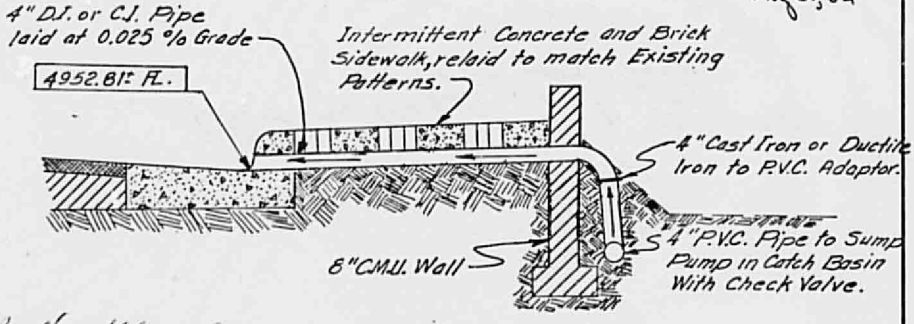
CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY-OF-WAY



PLAN
NOT TO SCALE

Aug 21, 84



SECTION A-A
NOT TO SCALE

Note: For placement of Cast or Ductile Iron Pipe through Curb and Gutter, See City of Albuquerque Std. Detail Drawing 1K-15.

D-129

213 CENTRAL AVE. N.W.

APPROVALS	NAME	DATE
ACE / DESIGN	L R Olsa	8/31/84
INSPECTOR	Jack Bass	2-6-85
ACE / FIELD	W. F. McNamara	2-7-85

TITLE: STATE THEATER RENOVATION
RETENTION BASIN AND DRAIN

PERMIT NO. 16440
SHEET 2 OF 2

MAP NO. K-14-Z